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Construction Completion Report Fill Site 1 and Landfill 2 The Presidio San Francisco, California

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Prepared for

The Presidio Trust
67 Martinez Street
San Francisco, California 94129-0052

K/J Project No. 0965011*00

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List of Acronyms and Abbreviations

ØT ÚÁ	ØTÁT [} æ ä * Á æ Á
ØÛØÚÁ	æ] æ æ ^ Á Á ^ ^ ç æ æ æ æ æ æ] [] æ æ Á ^ ~ æ ^ { ^ } ó
à*•Á	à^ [, Á [~ } à Á ~ - æ ^ Á
ÔUÔÁ	& @ { æ æ Á - æ [} & ! } Á
ÖÖÖÁ	à æ æ [à æ @ } ^ È æ æ [^ @ ^ } ^ Á
ÖÖVÁ	à æ æ [à æ @ } ^ È æ æ [^ @ æ ^ Á
ÖVÜÖÁ	Ö ^ } æ ç ^ } ó - Á ç æ Á ~ à • æ & • Ö [} d [Á Ö V Ü Ö Á
ÖÖÁ	Ö ç æ • Á [ç • Á ç æ Á
ÖSÁ	Ö ^ Á æ à Á ç æ [, • \ æ
ØUFÁ	Ø Á æ ^ Á Á
PØUÚÁ	P ^ æ ç æ æ à Á æ ^ ç Á æ Á
ŠÖGÁ	Š æ à - æ Á Á
{ * Ø Á	{ æ æ • Á ^ Á æ * æ Á
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{ * Ø HÁ	{ æ æ • Á ^ Á ^ ç Á
μ* Ø HÁ	{ æ * æ • Á ^ Á ~ à æ Á ^ ç Á
μ{ Ø Á	{ æ { ^ ç Á ^ Á ~ à æ Á } ç ^ ç Á
PÚUÁ	P æ æ } æ Á æ \ Á ^ ç æ Á
ÚØPÁ] [& & æ æ [{ æ æ @ à æ æ à [} Á
] * Ø HÁ] æ * æ • Á ^ Á ~ à æ Á ^ ç Á
ÚVÖÁ	Ú [^ • • æ } æ Á ^ ^ Á ç æ Á ^ ç æ Á
ÚVT ÚÁ	Ú ^ • æ æ Á ^ • ç æ æ æ { ^ } ó æ Á
ÜÖÖÁ	Ü ^ • ç æ æ } Á ç æ [^ Á æ á Á
ÜØUÁ	^ { ^ á æ æ æ } Á à b & ç ^ Á
ÜØUÁ	Ü ^ { ^ á æ æ æ } Á æ Á
ÜØY ÚÁ	Ü ^ { ^ á æ æ æ } Á [\ Á æ Á
ÜÖÜÖÁ	Ü ^ • [~ & Á } • ^ ç æ æ } æ à Á ^ & ç ^ ^ Á ç Á
ÜÚÖÁ	^ æ æ ^ Á ^ & } ó á ^ ^ } & Á
ÜVŠÖÁ	• [^ à ^ Á ç ^ • @ à Á æ æ } & } ç æ æ } Á
ÜY ÚÚUÁ	Ü ç { Á æ ^ Á ~ ç } Á ^ ç ^ } ç } Á æ Á
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VÖSÚÁ	ç ç ^ • @ à Á & ç æ ç ç à ç Á æ ç æ * Á [& á ^ ^ Á V Ö S Ú Á
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XT ÚÁ	X ^ ^ ç æ æ } Á æ æ æ { ^ } ó æ Á

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1.3.1Á Remedial Action Plan

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ä c^•ç æä }•Ë { { æä^á@Ä \•æÄ æð ä Ë ä áä^ çä áä Ä Ä çæ æ ä Á{ ^äääæç! } æä^•Ë

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1.3.2Á Remedial Action Work Plan

V@ÄÜÖY ÚÁ||çã^âÁæÄ*|{~}â/ß{|{æä|Ëäâ^•&äç|}Ä-Ä@Äæ||{ç^âÄ^ {^âãäæçä|}Ä|æËäçâ/â/ä
â•&äç|}Ä-Ä||~|^Äæçää•ÄæÜÜÄæâ/ä/ÖGÄÖÄ~{ {æ-Ä-Ä@ÄÜÖY ÚÁ||çã^âÁ||ËÄ

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Metals		Pesticides		Polycyclic Aromatic Hydrocarbons (PAH)		Dioxins and Furans	
Cd	As	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Pb	Hg	Chlordane	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Cr	Al	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Mn	Fe	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Cu	Co	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Zn	Ni	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Mo	Se	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
K	Ca	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Na	Mg	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
B	S	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
I	Br	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Li	Cl	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Sc	F	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
V	O	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Cr	N	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Mn	H	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Fe	C	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Co	Si	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Ni	P	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Cu	S	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Zn	Cl	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Mo	F	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Cd	O	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Pb	N	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Cr	H	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Mn	C	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Fe	Si	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Co	P	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Ni	S	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Cu	Cl	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Zn	F	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Mo	O	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Cd	N	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Pb	H	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Cr	C	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Mn	Si	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Fe	P	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Co	S	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Ni	Cl	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Cu	F	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Zn	O	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF
Mo	N	DDT	Endrin	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF	2,3,7,8-TCDF

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•Á Landfill 2 – V@Á^{ ^áãä&ç} Á|ŠOGÁ cāŕāÁ çðææ } Åg āĀ → x^šā][•æĀ Ā[āÅg āš^alā Ā &} cā ā * ÅĲ } &^ dæā } •Ā ŐOU Ő Åē[ç^ Åē] |Bæ/^ Å/^ æ ~] Ā çĤ •ËOU Ő Ā|^.^} oĀ Å @ Ā [āÅĀ Ā c^ā ÅĲ][, K

Metals		Pesticides		Polycyclic Aromatic Hydrocarbons (PAH)		Dioxins and Furans	
Cr	Cr	DDT	DDT	Benzo[a]pyrene	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF
Pb	Pb	Endrin	Endrin	Benzo[b]fluoranthene	Benzo[b]fluoranthene	2,3,7,8-TCDF	2,3,7,8-TCDF
Cd	Cd	Chlordane	Chlordane	Benzo[k]fluoranthene	Benzo[k]fluoranthene	2,3,7,8-TCDF	2,3,7,8-TCDF
Hg	Hg	Heptachlor	Heptachlor	Benzo[e]pyrene	Benzo[e]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF
As	As	Endosulfan	Endosulfan	Benzo[a]anthracene	Benzo[a]anthracene	2,3,7,8-TCDF	2,3,7,8-TCDF
Co	Co	Malathion	Malathion	Benzo[a]pyrene	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF
Mn	Mn	Phosphamidon	Phosphamidon	Benzo[a]pyrene	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF
Fe	Fe	Carbofenthrin	Carbofenthrin	Benzo[a]pyrene	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF
Cu	Cu	Permethrin	Permethrin	Benzo[a]pyrene	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF
Zn	Zn	Chlorpyrifos	Chlorpyrifos	Benzo[a]pyrene	Benzo[a]pyrene	2,3,7,8-TCDF	2,3,7,8-TCDF

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1.3.3Á Remedial Design Documents

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1.4.4 Implementation Approach

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c@Á!^Á!^áÁ^ { ^áãæÁææ } Áæ åÁ æ^Á^•d!ææ } Á ^!^Á & ^ááÁ Á@ ÁÜÇY ÚÁæ åÁ@Á^ { ^áãæÁ
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1.5Á Project Organization

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2.2.2.3 Migratory Birds and Nesting

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2.3Á Planning, Submittals, Review, and Permits

2.3.1Á Planning Documents

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2.3.2.2 Contractor Submittals

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2.3.3Á Reviews, Approvals, and Permits

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2.4 Temporary Facilities, Protections, and Controls

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2.5.5 Trail Closures and Traffic Controls

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3.1.1.1 Layout of Work Areas/Site Preparation

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3.1.4.1 Waste Classification

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3.1.5Á Dust Controls

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3.1.6Á Air Monitoring

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3.3.1.1 Grid Layout and Sampling Locations

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3.3.2.4 Sampling Methods, Analytical Program, QA Activities

3.3.2.1 Sampling Methods

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3.3.2.2 Analytical Program

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3.3.2.3 QA Activities

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3.3.5Á Surveying/Documentation of Sampling Locations

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3.4.4 Backfilling and Site Restoration

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3.4.1A Backfill Source Selection

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3.4.2Á Fill Site 1

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3.5Á Surveying Activities

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Section 4: Waste Characterization and Disposal

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4.2.4 Evaluation and Interpretation of Laboratory Results

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4.3Á Disposal

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Section 6: Summary, Conclusions, and Certification

Remedial construction work at FS1 and LF2 was conducted in general accordance with the RAWP, CQA Plan, construction drawings, and technical specifications, with the exception of design modifications in response to stakeholder requests for enhanced site restoration following the remedial action and changes in site conditions related as-built slopes, which are referenced in this Report and in the CQA Report (Appendix B). The remedial actions were effective in removing contaminated material from FS1 and LF2 and restoring human and ecological risk to acceptable levels. As part of the site restoration activities following the remedial action, areas of the site were restored as native planting and historic forest habitat, consistent with future planned land uses.

Based on the observations made during the remedial work and results of testing as documented in the CQA Report (Appendix B), the remedial actions at FS1 and LF2 meet the Remedial Action Objectives included in the Remedial Action Plan and referenced in this Report.

Ricky Teczon Jr. 3.28.12

Rick Teczon, P.E.
Design Engineer of Record



A

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- Presidio-Wide Quality Assurance Project Plan and Sampling and Analysis Plan, Presidio of San Francisco, San Francisco, California.

Tables

Table 1: Project Chronology

Activity	Begin	End
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Table 2: Summary of Regulatory Agency Correspondence

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06/04/2014	O[] [aAa aAU^ { ^aaAOa } AU a	R^~^•AOa O@aAU] ^!aa *AU~aA V@AU!^•aa Ái~•c Hí AO!aa AUd^c ÜEÜO[aGí G Üa AOa &a & EÖÖAI FG Eí G	Ö^} a^A^~la Ü~] ^!aa [] O[, } a a•Aa aAO[a[] { ^ } aAU^q aa } AAU! [*!a Oaa [] aaO[a[] { ^ } aAU! [a&a } AE^ } & A Ö^} aq ^ } a -A[aAU~ a•aa &•AO[] d[A î €Paa : AO^ } ^ O^!^!^ EÖÖAI î FEG GF
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Table 2: Summary of Regulatory Agency Correspondence

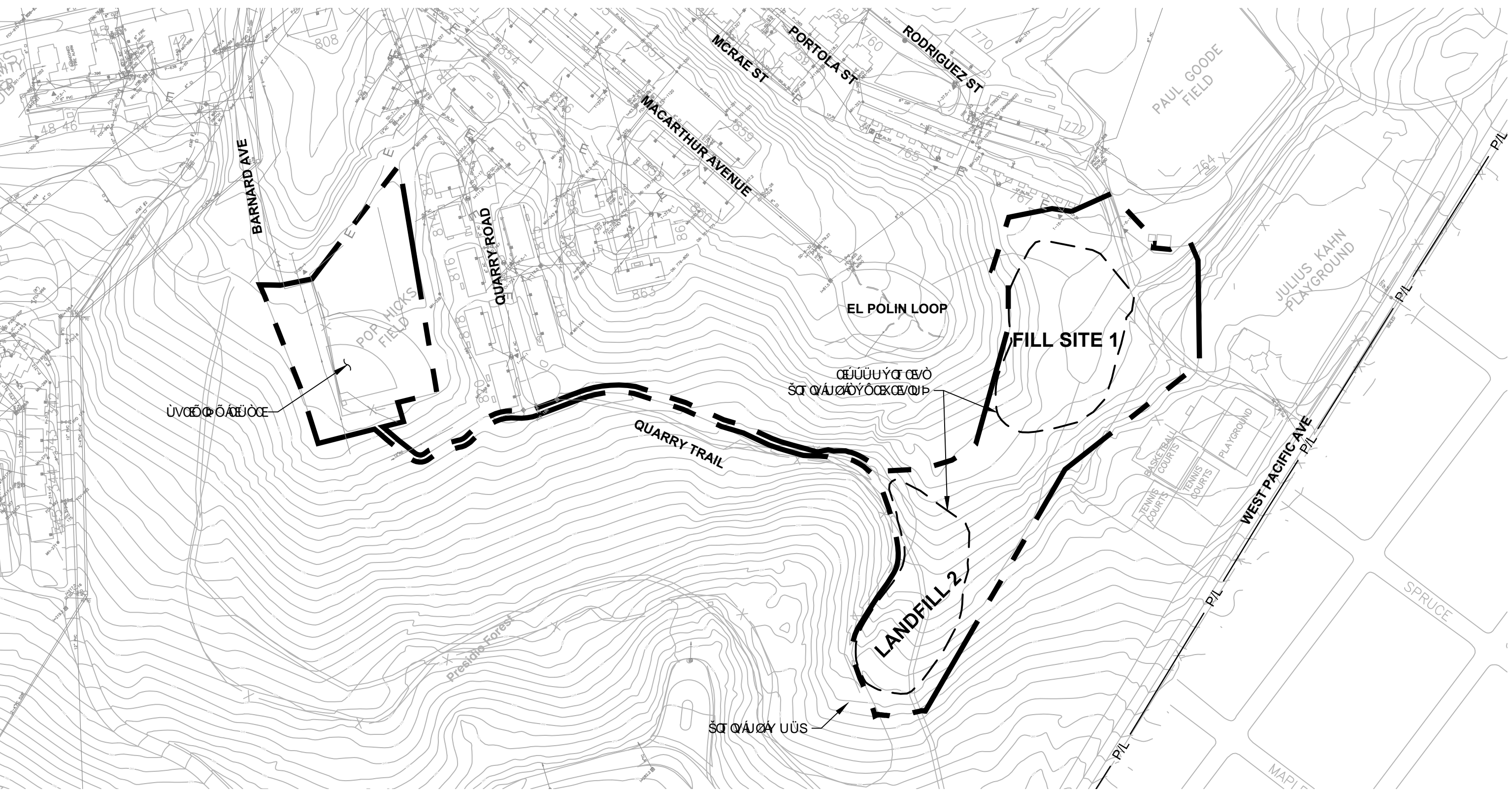
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Table 2: Summary of Regulatory Agency Correspondence

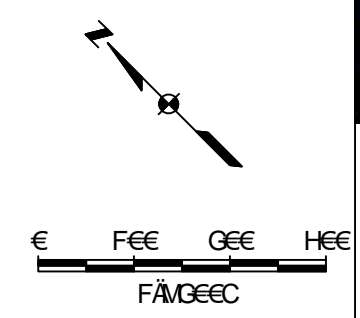
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Figures

PROJECT LOCATION MAP

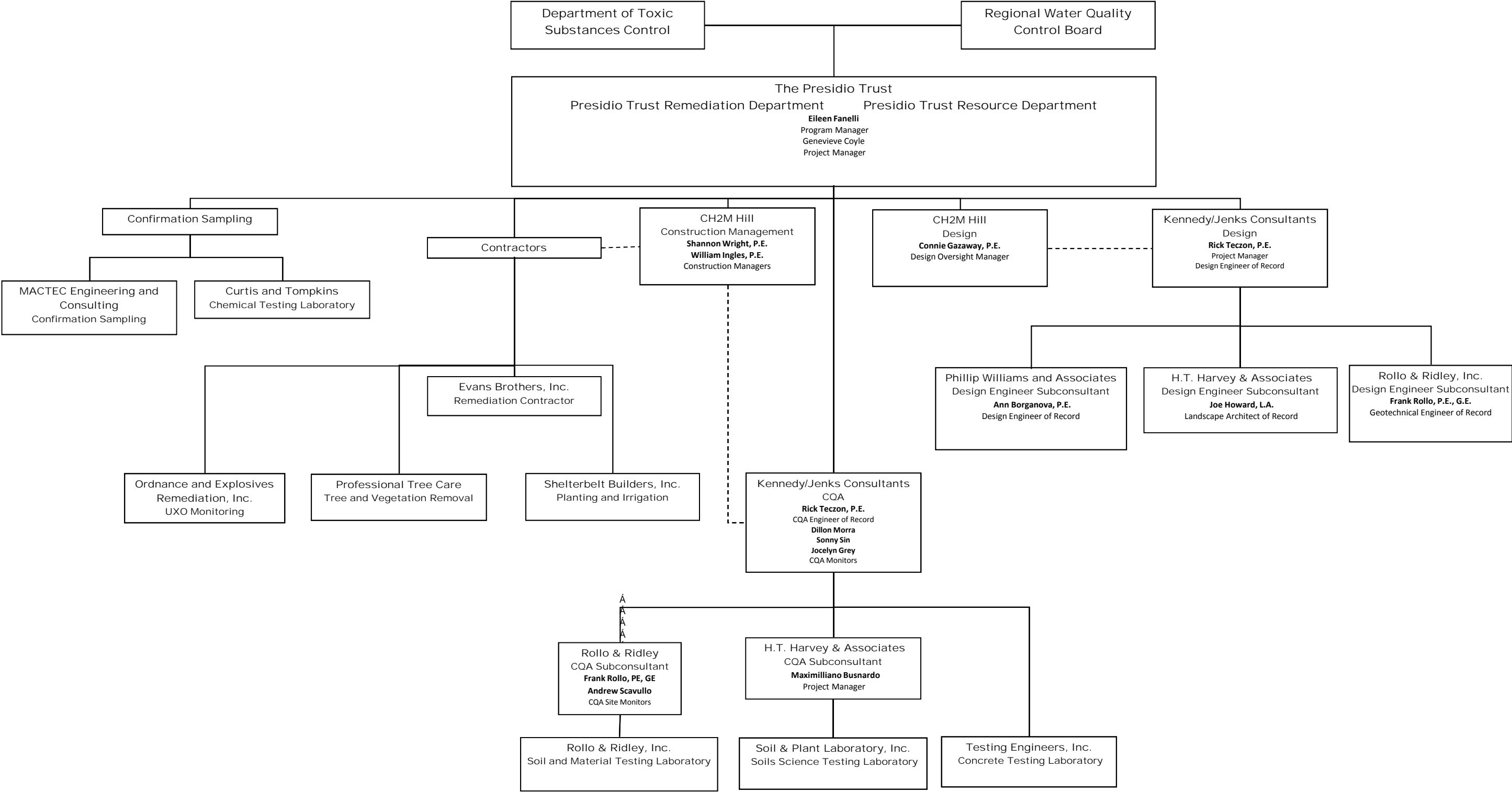


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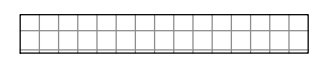
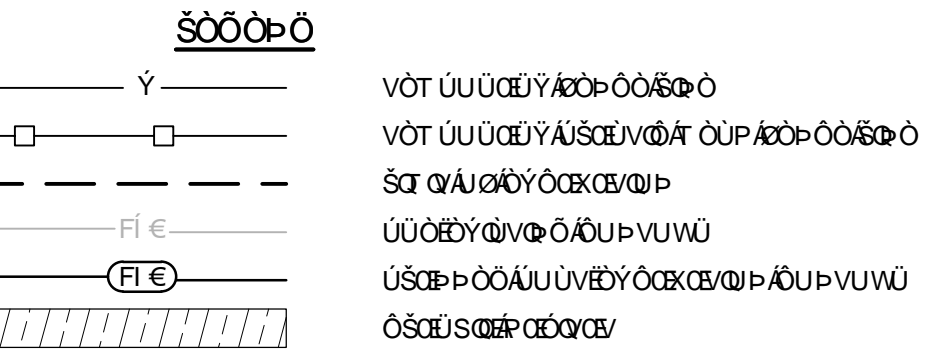
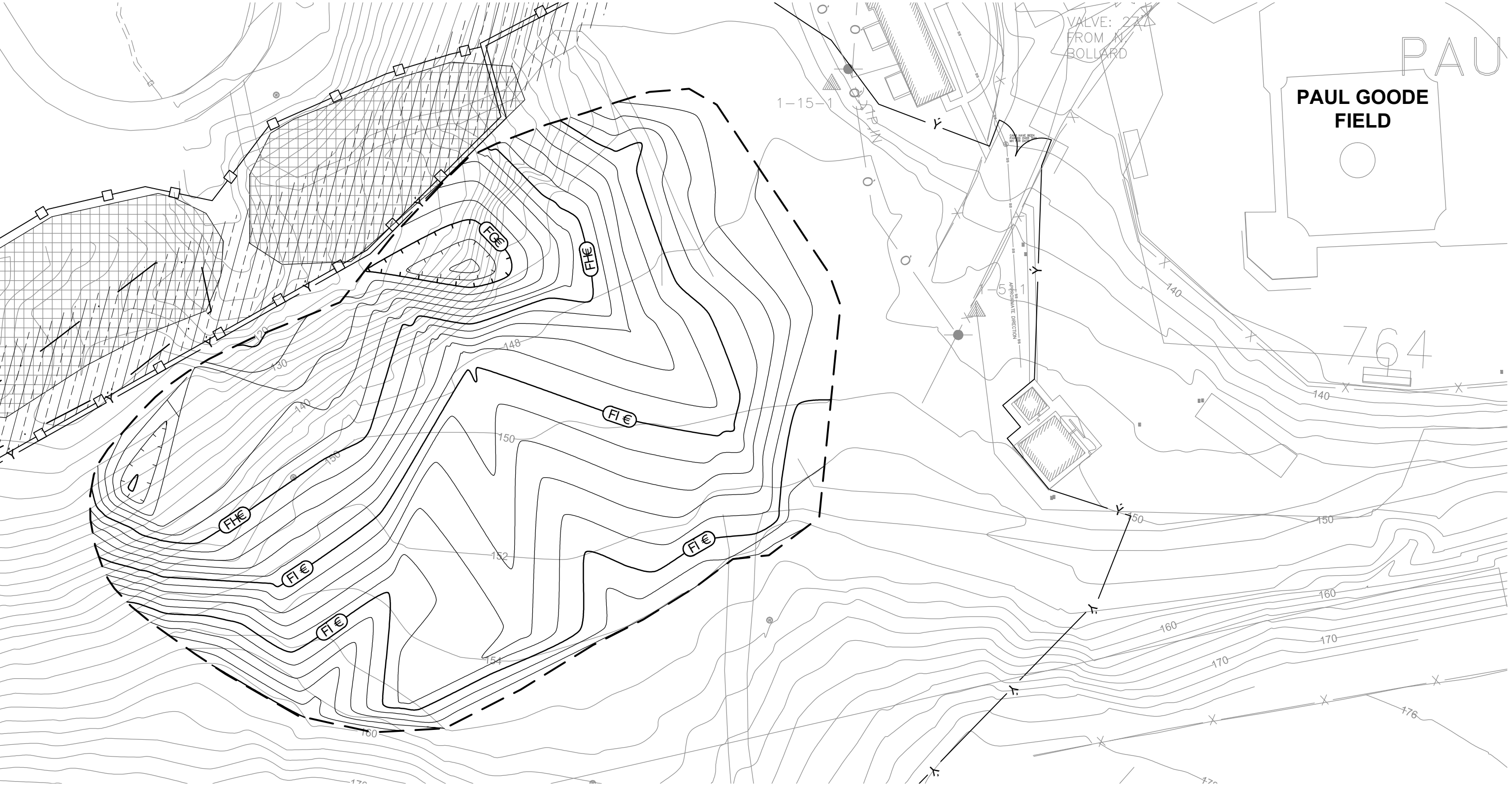
Site Plan

Figure 2

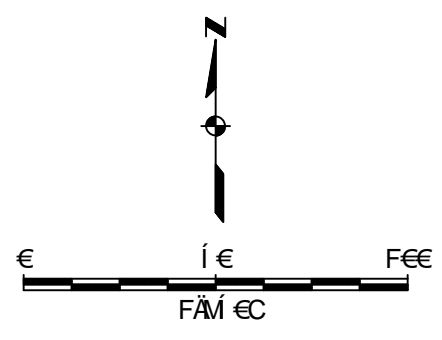


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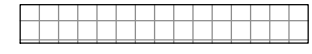
PROJECT LOCATION MAP



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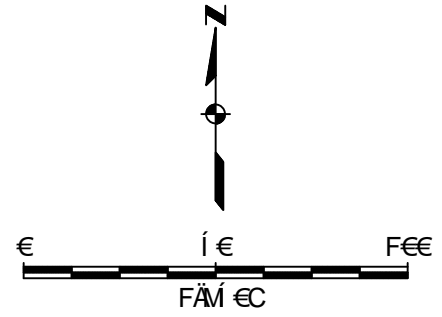
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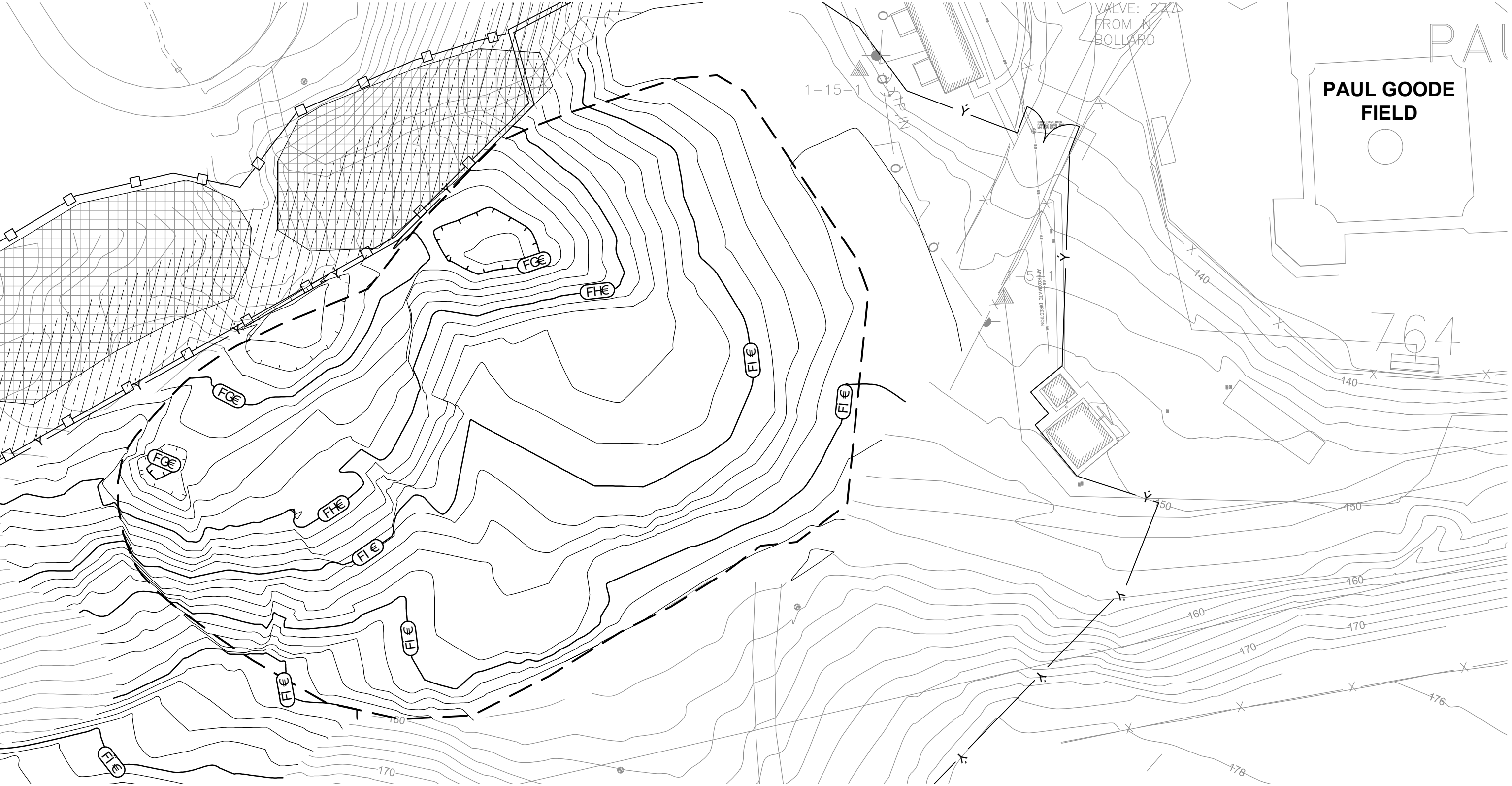


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Landfill 2 - Proposed Excavation

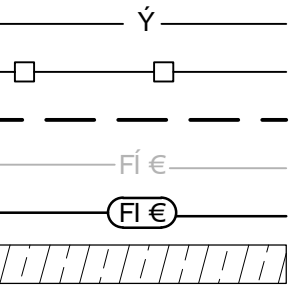
PROJECT LOCATION MAP
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Figure 6

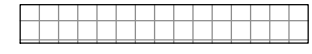
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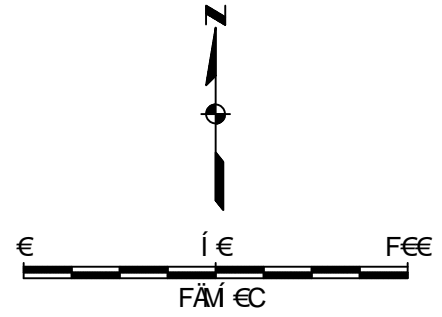
PAUL GOODE FIELD



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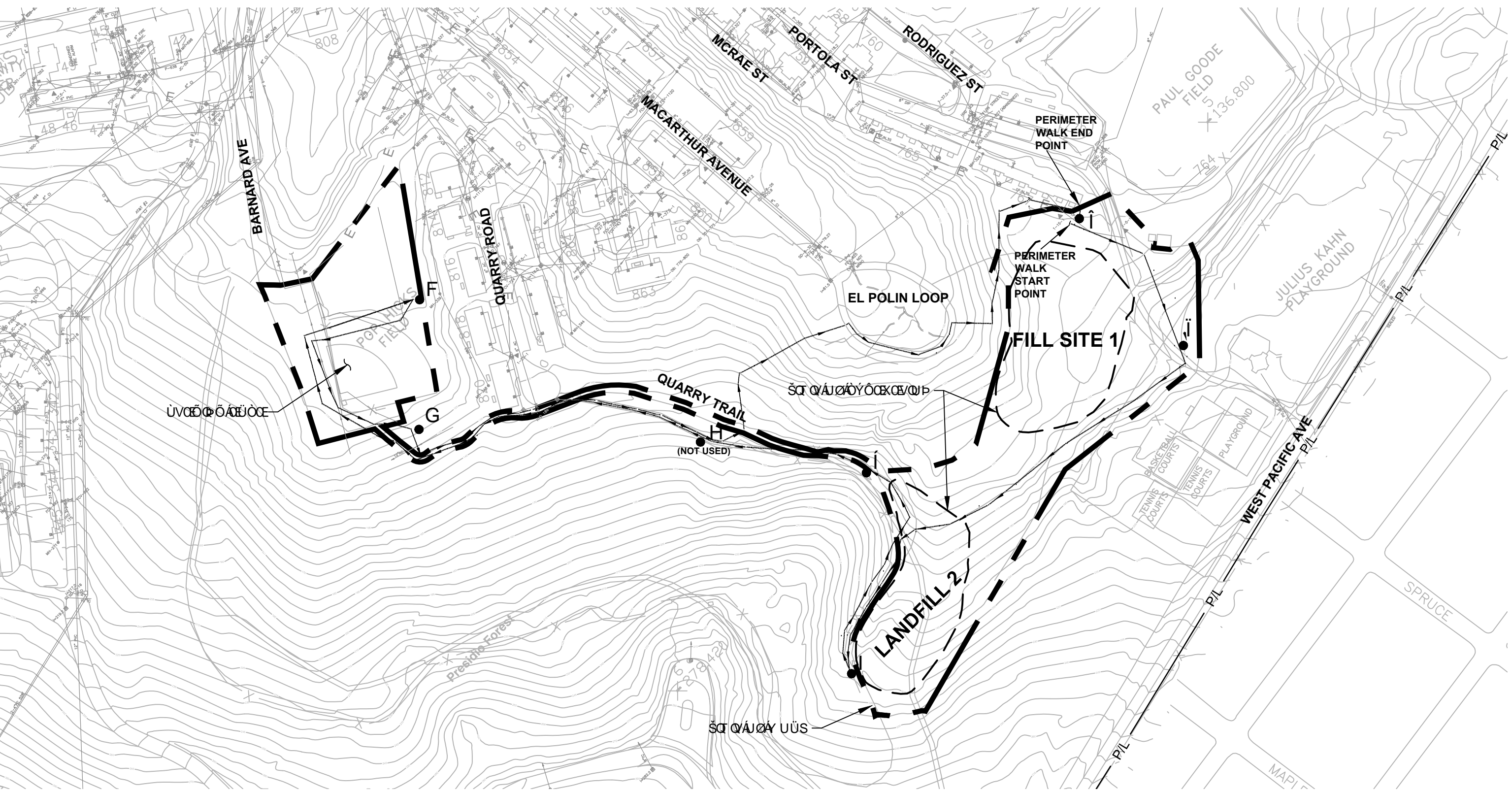
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PAUL GOODE FIELD
Fill Site 1 - Actual Excavation, 2010
PAUL GOODE FIELD
TACOG

Figure 7

Presidio Trust Air Monitoring Locations



Legend

- Thick dashed line: Perimeter Walk Route
- Thin dashed line: Boundary
- Thin solid line: Road
- Thin solid line with arrow: Trail
- Dot: Air Monitoring Location
- Dot (NOT USED): Air Monitoring Location (NOT USED)

Legend

Thick dashed line: Perimeter Walk Route

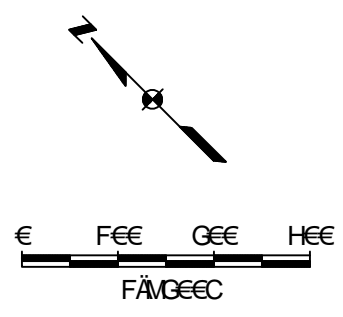
Thin dashed line: Boundary

Thin solid line: Road

Thin solid line with arrow: Trail

Dot: Air Monitoring Location

Dot (NOT USED): Air Monitoring Location (NOT USED)



Presidio Trust Air Monitoring Locations

Presidio Trust Air Monitoring Locations

Figure 9



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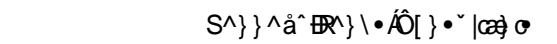
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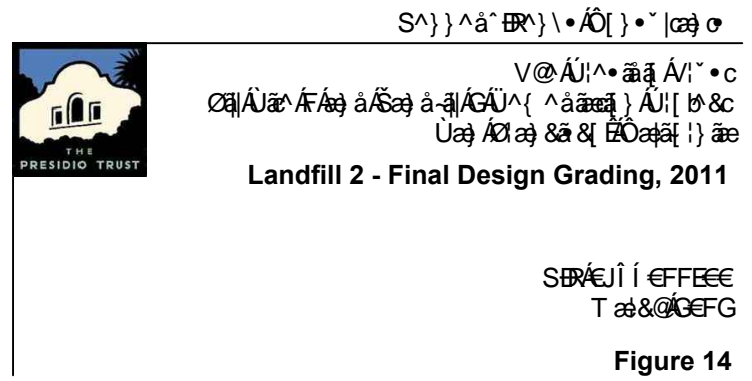
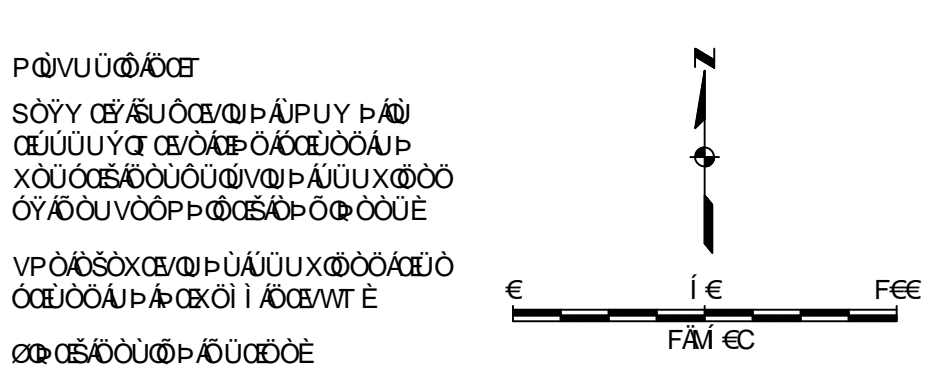
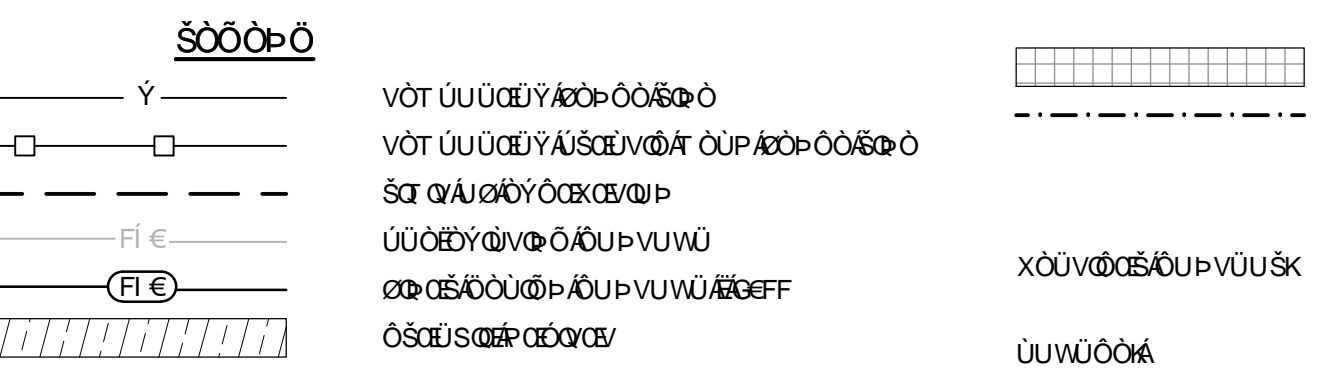
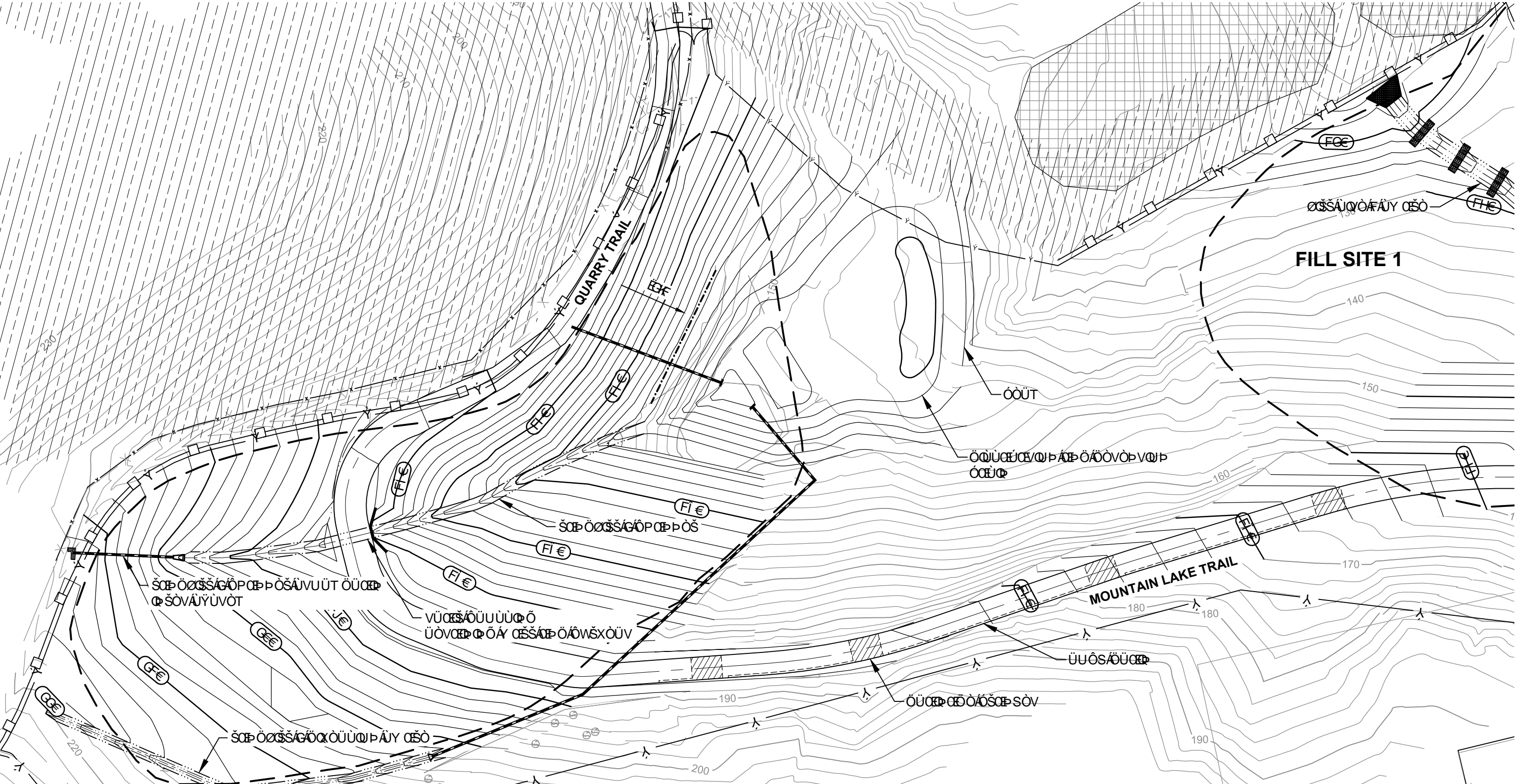
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Fill Site 1 - Confirmation Sample Grid

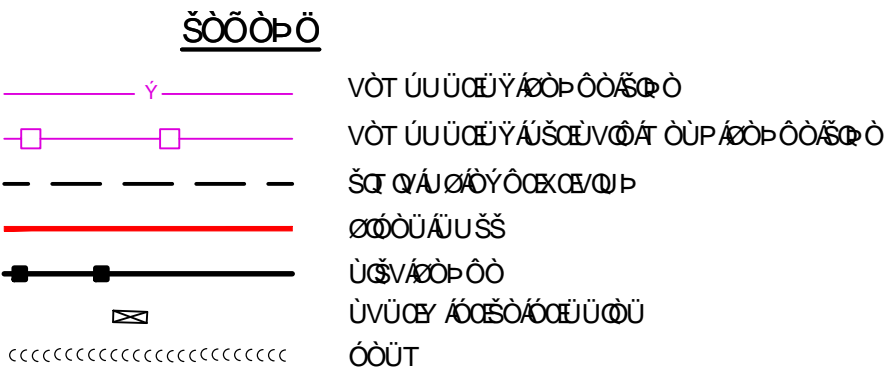
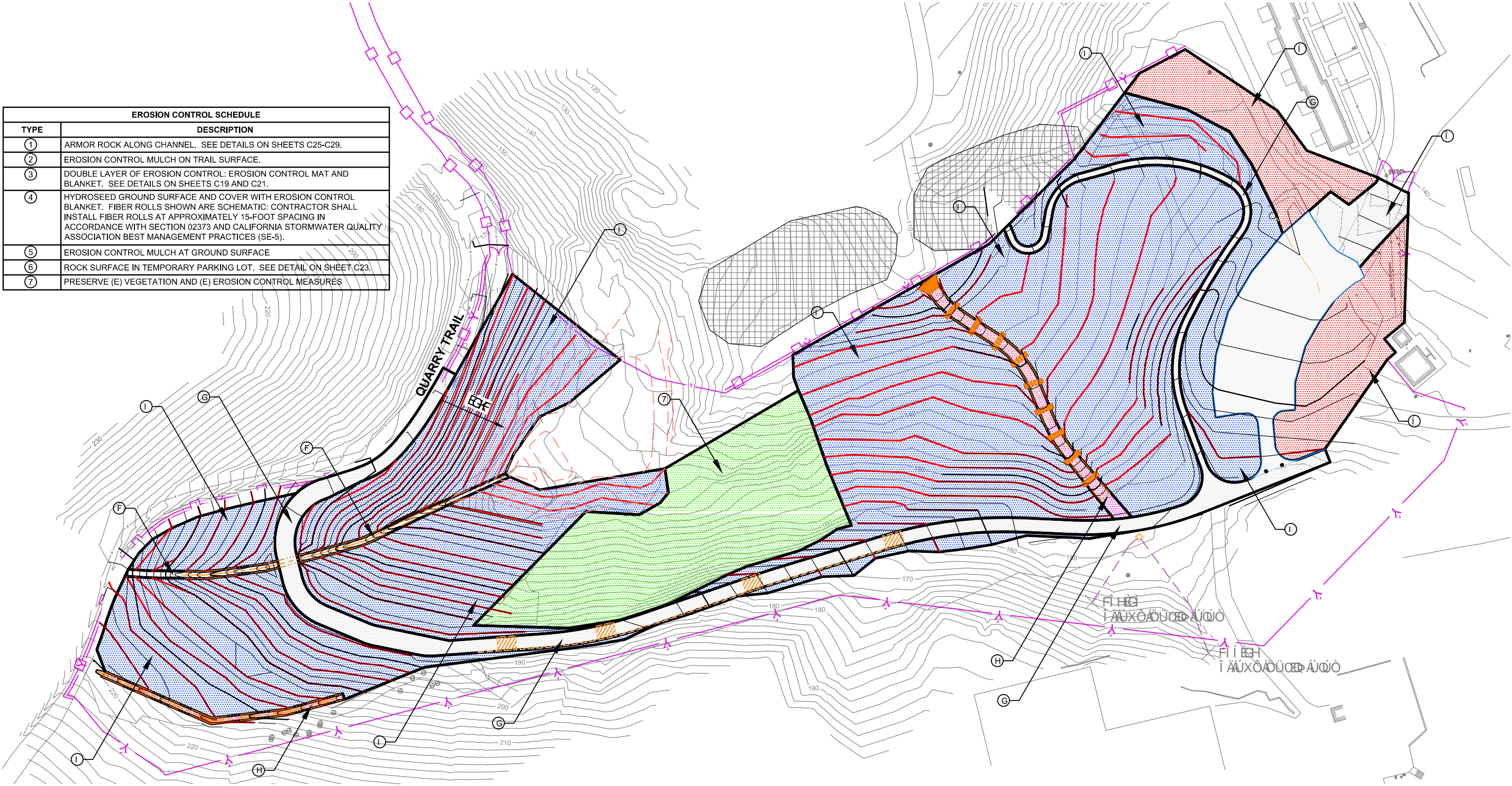
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Figure 10

PHOTOGRAPHIC RECORD OF THE LANDFILL SITE, 2011



EROSION CONTROL SCHEDULE	
TYPE	DESCRIPTION
①	ARMOR ROCK ALONG CHANNEL. SEE DETAILS ON SHEETS C25-C29.
②	EROSION CONTROL MULCH ON TRAIL SURFACE.
③	DOUBLE LAYER OF EROSION CONTROL: EROSION CONTROL MAT AND BLANKET. SEE DETAILS ON SHEETS C19 AND C21.
④	HYDROSEED GROUND SURFACE AND COVER WITH EROSION CONTROL BLANKET. FIBER ROLLS SHOWN ARE SCHEMATIC: CONTRACTOR SHALL INSTALL FIBER ROLLS AT APPROXIMATELY 15-FOOT SPACING IN ACCORDANCE WITH SECTION 02373 AND CALIFORNIA STORMWATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES (SE-5).
⑤	EROSION CONTROL MULCH AT GROUND SURFACE
⑥	ROCK SURFACE IN TEMPORARY PARKING LOT. SEE DETAIL ON SHEET C23.
⑦	PRESERVE (E) VEGETATION AND (E) EROSION CONTROL MEASURES



NOTES

F: OUSAOUEOAPWAUEOCE
TCEAOAOSORNUVOOAY
VPOAP OOU

G: OUSAOORNUVAPUSCEWP
UUAUUOOUUWP
UUUVONVAPAUUUOUOXOAPD
XOONVWPUEOONVOOAY
OP OOU

Storm Water Management & Erosion Control Plan

Figure 15